光华化工
GUANGHUA CHEMICAL

化学品安全技术说明书（SDS）

产品：**热镀锌缓蚀抑雾剂（SYH）**

编制依据：GB/T 16483- 2008、GB/T 17519- 2013、GB 30000 系列 GHS 分类标准

1 化学品及企业标识

1.1 商品名称：热镀锌缓蚀抑雾剂（SYH）

1.2 别名：盐酸酸洗抑雾剂、热镀锌缓蚀除锈剂

1.3 产品推荐用途：热镀锌盐酸、硫酸酸洗槽使用；抑制酸雾挥发，对钢材基体起到缓蚀保护作用

1.4 禁止用途：不得用于食品、医药、饮用水体系

1.5 生产企业：昆山光华化工材料有限公司

1.6 企业地址：江苏省昆山市巴城镇湖滨北路 341 号

1.7 联系电话：13584927325

1.8 24 小时国内应急咨询电话：13584927325

1.9 编制部门：技术工程部 1.10 编制日期：2026- 08- 19 1.11 修订版本：V2.0

2 危险性概述

2.1 GHS 危险性分类： 皮肤刺激（类别 2）；严重眼损伤（类别 1）；对水生生物有害并具有长期持续影响。本品不燃液体，无爆炸危险。

2.2 GHS 象形图：⚠感叹号

2.3 信号词：**警告**

2.4 危险说明： H315：造成皮肤刺激； H318：造成严重眼损伤； H412：对水生生物有害并具有长期持续影响。

2.5 防范说明： P280：戴防护手套、防护眼镜 / 护面； P302+P352：如皮肤接触，用大量肥皂水清水冲洗； P305+P351+P338：如入眼睛：清水持续冲洗数分钟，取出隐形眼镜继续冲洗，立刻就医。 P273：避免释放到环境中。

2.6 其他危害：不含磷、不含 ODS 消耗臭氧层物质，符合 RoHS 指令；本品含有烷基酚聚氧乙烯醚组分，严禁未经处理直接排入水体。

3 成分 / 组成信息

☑混合物 ☐纯品

组分名称	CAS 号	质量分数
十二烷基硫酸钠	151- 21- 3	5 %
聚氧乙烯醚烷基酚 TX-10	14409- 72- 4	10 %
苯甲酸钠	532- 32- 1	10 %
氯化钠	7647- 14- 5	5 %
去离子水	7732- 18- 5	70 %

备注：以上为本产品公开组分；无列入《危险化学品目录》高浓度高危组分。

4 急救措施

4.1 吸入：转移至空气新鲜处；呼吸道不适，就医。

4.2 皮肤接触：脱去被污染衣物，流动清水冲洗皮肤至少 10 分钟；发生皮肤刺激，就医。

4.3 眼睛接触：立即翻开眼睑，流动清水或者生理盐水持续冲洗不少于 15 分钟，**必须立刻就医**。

4.4 食入：饮用足量温水，**禁止催吐**，立即就医。

4.5 给医生提示：对症处理，无特异性解毒剂。

5 消防措施

5.1 合适灭火剂：雾状水、干粉、二氧化碳、砂土。

5.2 禁止灭火剂：无特殊禁忌。

5.3 燃烧有害分解产物：高温分解可产生一氧化碳、硫氧化物、有机烟气。

5.4 消防员防护建议：佩戴自给式防毒面具、全套消防防护服，在上风向灭火；尽可能将容器转移至空旷区域；用水冷却火场容器；容器变色、泄压发声，人员立即撤离。

6 泄漏应急处理

6.1 人员防护：疏散无关人员；处置人员佩戴耐化学品橡胶手套、护目镜，避免皮肤眼睛直接接触泄漏液体。

6.2 环境保护：**严禁泄漏物流入下水道、雨水管网、河道，会对水生生物造成长期危害**。

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6.3 小量泄漏：砂土、活性炭、惰性吸附材料吸附残液；收集进密闭容器，废水送入厂区废水处理系统预处理。

6.4 大量泄漏：构筑围堤收容；泡沫覆盖抑制气雾；物料泵入专用收集容器，交由具备资质危废处置单位处置。

7 操作处置与储存

7.1 操作注意事项

1）密闭操作，车间加强通风；操作人员经过岗位培训，遵守作业规程。

2）避免皮肤、眼睛直接接触，佩戴全套个人防护用品。

3）远离热源，工作场所禁止吸烟。

4）避免与强氧化剂混配接触。

5）轻装轻卸，防止包装桶破损泄漏；现场配备泄漏应急物资与消防器材。

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7.2 储存条件

1）储存于阴凉通风库房，环境温度 5- 35℃；保持容器密封完好。

2）与氧化剂、食品化学品分开存放，严禁混储。

3）按照消防法规、危化品仓储管理要求保管。

8 接触控制 / 个体防护

8.1 职业接触限值：混合物无国家规定职业接触限值。

8.2 工程控制：生产岗位加强通风，减少气雾产生。

8.3 呼吸防护：正常工况不需要；产生大量酸雾、气雾时佩戴合适的防雾滴口罩。

8.4 手部防护：耐化学橡胶防护手套。

8.5 眼睛防护：佩戴护目镜（防冲击化学品防护眼镜）。

8.6 身体防护：耐化学品工作服。

9 理化特性

外观：无色至黄棕色透明液体

气味：中性微弱气味

pH 值：6- 8（5% 水溶液）

相对密度（15℃）：1.00±0.05 g/cm³

闪点：无闪点（不燃液体）

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溶解性：可与水任意比例互溶

燃烧性：不燃

其他性能：耐高温，抑雾、缓蚀性能优异；不含磷，不含 ODS。

备注：理化参数来源于本产品 CMA- COA 第三方检测报告。

10 稳定性和反应性

10.1 稳定性：常温常压储存条件下稳定。

10.2 应避免接触物质：强氧化剂。

10.3 危险反应：与强氧化剂接触，可发生化学反应。

10.4 危险分解产物：高温不完全燃烧产生一氧化碳、硫氧化物、有机烟气；常温储存条件下无分解。

11 毒理学信息

11.1 急性毒性：该混合物无高急性毒性数据。

11.2 皮肤腐蚀 / 刺激：类别 2，反复长期接触可引发皮肤发红、红斑。

11.3 眼损伤 / 眼刺激：类别 1，可造成严重眼部损伤。

11.4 致敏性：无明确致敏记录。

11.5 致突变、致癌、生殖毒性：混合物组分未见明确致癌致突变证据；其中烷基酚聚氧乙烯醚存在内分泌干扰相关文献报道。

12 生态学信息

12.1 水生毒性：对水生生物有害，具有长期持续毒性；严禁原液直接排放水体。

12.2 生物降解性：组分综合生物降解率＞90%；TX- 10 降解性能有限。

12.3 生物蓄积潜力：部分组分存在生物蓄积风险。

12.4 其它生态效应：生产废水必须预处理达标之后排放。

13 废弃处置

13.1 化学品残余物：原液不可以直接排放；厂区废水站预处理，或者委托具备资质危废处置单位处置。

13.2 污染包装容器：容器充分清洗后回收利用；残留废液按照危险废物管理。

13.3 提示：处置全过程遵守国家、地方环境保护、危废管理法规。

14 运输信息

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14.1 UN 编号：不属于危险货物，无 UN 编号。

14.2 运输危险类别：非危险化学品。

14.3 包装类别：无。

14.4 包装方式：25kg、50kg 塑料大口吨桶包装。

14.5 运输注意事项： 运输前检查包装密封完好；防止暴晒、冷冻；禁止和强氧化剂、食品类货物混运；防止容器发生泄漏。

15 法规信息

本 SDS 编制参考法规：GB/T16483- 2008、GB/T17519- 2013、GB30000 系列 GHS 分类； 《安全生产法》、《危险化学品安全管理条例》、RoHS 环保指令、地方环保安全生产相关规定。

说明：本产品不属于《危险化学品目录》列明的危险化学品。

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16 其他信息

16.1 参考文献：本产品 CMA- COA 检测报告，企业 TDS 技术数据表。

16.2 修订说明：V2.0，废止旧 GB16483- 2000 旧版本 MSDS；更新 GHS 危险性分类，适配现行国标。

16.3 编制部门：昆山光华化工材料有限公司- 技术工程部。

16.4 免责声明：本 SDS 依据现有测试、文献资料编制，仅供安全操作参考；使用者结合现场工况，自行评估使用安全风险。

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Safety Data Sheet (SDS)

Product: Corrosion Inhibitor & Mist Suppressant（SYH）

Regulatory reference: OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012, aligned with UN GHS Revision 7)

Version: V2.0

Date of preparation: 2026-08-19

SECTION 1: IDENTIFICATION

1.1 Product identifier: Corrosion Inhibitor & Mist Suppressant（SYH）

1.2 Synonym: Hydrochloric acid pickling mist-suppressing agent

1.3 Recommended use: Corrosion inhibition and acid-mist suppression for hot-dip galvanizing hydrochloric-acid pickling bath.

1.4 Restrictions on use: Not for food, pharmaceutical or potable-water systems.

1.5 Manufacturer information:

Company: Kunshan Guanghua Chemical Materials Co., Ltd.

Address: No.341 Hubin North Road, Bacheng Town, Kunshan City, Jiangsu Province, P.R.China

Telephone: 13584927325

1.6 US-local 24-hour emergency telephone: 13584927325

1.7 Prepared by: Engineering Department, Kunshan Guanghua Chemical Materials Co., Ltd.

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SECTION 2: HAZARD(S) IDENTIFICATION

2.1 GHS Hazard Classification (per 29 CFR 1910.1200):

Skin Irritation Category 2; Serious Eye Damage Category 1; Hazardous to aquatic environment, chronic hazard Category 4. Non-flammable liquid, no fire-explosion hazard.

2.2 GHS Pictogram: Exclamation mark ⚠

2.3 Signal word: **Warning**

2.4 Hazard Statements:

H315: Causes skin irritation.

H318: Causes serious eye damage.

H412: Harmful to aquatic life with long lasting effects.

2.5 Precautionary Statements:

P280: Wear protective gloves and eye/face protection.

P273: Avoid release to the environment.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

P332+P313: If skin irritation occurs: Get medical advice/attention.

2.6 Other hazards: Contains no phosphorus, no ODS ozone-depleting substances, complies with RoHS requirements. Contains alkylphenol ethoxylates; do not discharge raw product to water bodies.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

☑ Mixture ☐ Substance

Chemical name	CAS-No.	Concentration (wt-%)
Sodium dodecyl sulfate	151-21-3	5
Alkylphenol ethoxylate (TX-10)	14409-72-4	10
Sodium benzoate	532-32-1	10
Sodium chloride	7647-14-5	5
De-ionized water	7732-18-5	70

Remarks: No high-hazard ingredients listed under US Hazardous Chemical Inventory.

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SECTION 4: FIRST-AID MEASURES

4.1 Inhalation: Remove victim to fresh air. If respiratory discomfort persists, seek medical attention.

4.2 Skin contact: Take off contaminated clothing. Rinse skin thoroughly with running water for at least 10 minutes. If irritation develops, obtain medical help.

4.3 Eye contact: Rinse eyes continuously with plenty of running water or normal saline for minimum 15 minutes. Seek medical care immediately.

4.4 Ingestion: Give large quantities of water to drink. **Do NOT induce vomiting**. Call a physician.

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4.5 Notes to physician: Treat symptomatically; no specific antidote is available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: Water spray, dry chemical, carbon dioxide, sand.

5.2 Unsuitable extinguishing media: None known.

5.3 Hazardous decomposition products under fire-conditions: Carbon monoxide, sulfur oxides, organic fumes upon incomplete combustion.

5.4 Advice for fire-fighters: Wear self-contained breathing apparatus (SCBA) and full protective turnout gear. Fight fire from up-wind side. Move intact containers to safe open area if without risk. Cool exposed containers with water spray. Withdraw immediately if container shows discoloration or venting noise.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Evacuate non-essential personnel. Responders shall wear chemical-resistant gloves and safety goggles. Avoid direct skin-eye contact with spilled liquid.

6.2 Environmental precautions: Prevent spill from entering sewers, storm drains and surface watercourses; product has long-term hazard to aquatic organisms.

6.3 Small spill: Contain spill with sand, activated carbon or other inert absorbents. Collect waste into sealed containers; send wastewater to on-site

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waste-water pre-treatment facility.

6.4 Large spill: Dike for containment. Apply foam to suppress aerosol generation. Pump material into dedicated waste receptacles. Arrange disposal via licensed waste-handling contractor.

SECTION 7: HANDLING AND STORAGE

7.1 Handling precautions:

- Use with adequate local ventilation. Operators shall receive proper job-site training.

- Wear assigned personal protective equipment, avoid skin-eye contact.

- Keep away from heat sources; no open-flame smoking in working zone.

- Incompatible with strong oxidizing agents, avoid mixing contact.

- Handle drums carefully to prevent rupture-leakage. Keep spill-kit and fire-control equipment readily available.

7.2 Storage conditions:

- Store in cool, well-ventilated warehouse, storage temperature range 5-35 °C. Keep containers tightly closed.

- Segregate from oxidizing agents and food-grade commodities.

- Comply with local fire-safety and warehouse-storage regulations.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Occupational exposure limits: No established OSHA-PEL / ACGIH-TLV

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values for this mixture.

8.2 Engineering controls: Maintain adequate ventilation to reduce aerosol-mist build-up.

8.3 Respiratory protection: Normally not required. If heavy mist/aerosol is generated, use suitable mist-filter respirator.

8.4 Hand protection: Chemical-resistant rubber gloves.

8.5 Eye protection: Chemical-resistant safety goggles / face shield.

8.6 Body protection: Chemical-resistant work clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



Appearance: Colorless to yellow-brown clear liquid

Odor: Neutral mild odor

pH value: 6-8 (5 % aqueous solution)

Relative density (15 °C): 1.00 ± 0.05 g/cm³

Flash point: Non-flammable, no measurable flash-point

Solubility: Miscible with water in all proportions

Flammability: Non-combustible

Other properties: High-temperature resistance, excellent mist-suppression & corrosion-inhibition performance. Contains no phosphorus and no ozone-depleting substances.

> Source of data: In-house CMA-COA third-party test report.

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SECTION 10: STABILITY AND REACTIVITY

10.1 Chemical stability: Stable under normal ambient storage-handling conditions.

10.2 Incompatible materials: Strong oxidizing agents.

10.3 Hazardous reactions: May undergo chemical interaction when mixed with strong oxidants.

10.4 Hazardous decomposition products: Carbon monoxide, sulfur oxides and organic fumes under high-temperature incomplete combustion; no decomposition under ambient storage.



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity: No high-acute-toxicity data available for this mixture.

11.2 Skin corrosion / irritation: Category 2; repeated long-term contact may produce skin erythema / mild rash.

11.3 Serious eye damage / eye irritation: Category 1; causes serious eye damage.

11.4 Skin sensitization: No confirmed sensitizing-reaction records.

11.5 Germ-cell mutagenicity, carcinogenicity, reproductive toxicity: No direct evidence of carcinogenic / mutagenic hazards for mixture; alkylphenol ethoxylate component has literature reports on endocrine-disrupting potential.

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SECTION 12: ECOLOGICAL INFORMATION (Non-mandatory for OSHA-HCS)

12.1 Aquatic toxicity: Harmful to aquatic life with long lasting effects. Do not discharge raw product to natural water environment.

12.2 Biodegradability: Overall biodegradation rate > 90 %; TX-10 component limited biodegradability.

12.3 Bioaccumulative potential: Partial components have bioaccumulation risk.

12.4 Other adverse environmental effects: Wastewater must be pre-treated before discharge.

SECTION 13: DISPOSAL CONSIDERATIONS (Non-mandatory for OSHA-HCS)

13.1 Product residues: Do not discharge untreated. Pretreat via on-site waste-water system or consign to licensed hazardous-waste disposal contractor complying with local EPA regulations.

13.2 Contaminated packaging: Thoroughly rinse containers for potential recycling; residual content shall be managed as waste material.

13.3 Regulatory note: Always follow federal, state and local waste-management statutes.

SECTION 14: TRANSPORT INFORMATION (Non-mandatory for OSHA-HCS)

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14.1 UN number: Not classified as dangerous goods, no UN-number assigned.

14.2 DOT hazard class: Non-hazardous commodity for transport.

14.3 Packing group: Not applicable.

14.4 Packaging: 25 kg / 50 kg plastic drums.

14.5 Transport advice: Inspect drum sealing before shipment. Protect from freeze-thaw and direct sunlight. Do not co-ship with strong oxidants or food-stuff cargo. Prevent container leakage.

SECTION 15: REGULATORY INFORMATION (Non-mandatory for OSHA-HCS)

Prepared in accordance with OSHA 29 CFR 1910.1200 Hazard Communication Standard (HazCom 2012).

Not listed on US Hazardous Chemicals list. TSCA inventory status shall be verified for US import scenarios.

Complies with RoHS directive requirements for restricted-substance limits.

SECTION 16: OTHER INFORMATION

16.1 References: In-house CMA-COA test report, product TDS technical data sheet.

16.2 Revision note: Version V2.0. Obsolete earlier MSDS documents compiled under old GB16483-2000 Chinese standard. Updated to comply with OSHA-HCS GHS classification rules.

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16.3 Prepared by: Engineering Department, Kunshan Guanghua Chemical Materials Co., Ltd.

16.4 Disclaimer: This SDS is compiled based on available test-data and literature for safety-operation reference only. End-users shall independently assess safety risks according to actual site working-conditions.

